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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/999,308	12/29/1997	NOBUTSUGU FUJINO	FUJO14691	3706

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EXAMINER

ENG, GEORGE

ART UNIT

PAPER NUMBER

2643

DATE MAILED: 06/28/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	08/999,308	FUJINO ET AL.
Examiner	Art Unit	
George Eng	2643	

~~The MAILING DATE of this communication appears on the cover sheet with the correspondence address --~~

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 22 February 2002.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6,8-14 and 16-56 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-6,8-14,16-56 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). ____ .
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ . 6) Other: ____ .

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DETAILED ACTION

Response to Amendment

1. This Office action is in response to amendment filed 2/22/2002 (paper no. 27).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-6, 8-14 and 16-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shachar et al. (US PAT. 5,764,736 hereinafter Shachar) in view of Van Hoff et al. (US PAT. 5,919,247 hereinafter Van Hoff) and Goldman et al. (US PAT. 4,995,074 hereinafter Goldman).

Regarding claim 1, Shachar discloses a communication system as shown in figure 1 comprising a server (124) providing information, a terminal (100) communicating data with the server, and a communication network (122) connecting said server to said terminal (col. 7 line 38 through col. 8 line 26), wherein the system further comprises a temporary line disconnection unit for temporary disconnecting a line being used for primary data communication when a third party other than the server is being voice communicated during a data communication between the terminal and the server (figure 4b and col. 14 lines 2-20), a data fetch unit for automatically fetching data from the server to the terminal (figure 4a and col. 13 lines 7-40), a storage unit for storing data fetch by said automatic data fetch unit (col. 13 lines 62-66), wherein a data communicating process is preformed from a status at a point immediately before starting the voice communication when said server and said terminal resume the data communication (figure 4c, col. 12 lines 34-57 and col. 14 lines 41-51). Note while Shachar teaches the communication system is able to download information from the server during data communication in the storage unit and to access the storage unit in order to accomplish various tasks (col. 8 lines 51-67, col. 10 lines 33-49 and col. 11 lines 35-41) so that the communication is capable of providing virtual data communication during voice communication. Shachar differs from the claimed invention in not specifically teaching that the data fetch unit fetching data of web sites including information which a user requires. However, Van Hoff teaches

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a system for distributing data to clients over a network comprising a client system using a tuner process for downloading and storing entire web site contents on a local hard disk upon a request is made so that a user can access the web site contents without further network traffic (col. 2 line 50 through col. 3 line 9 and col. 12 line 63 through col.13 line 6). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Shachar in having the tuner process as taught by Van Hoff because it makes user friendly so that it makes possible to use an application from a particular web site even if client system is not connected to a network. Note while neither Shachar nor Van Hoff specifically teaches the temporary line disconnected unit mediates the disconnection and reassignment of the communication line to the voice communication without issuing any disconnected notification to the upper layer application. However, Goldman teaches a system for preventing loss of a data when a communication line is temporarily switched for an optional use by not passing disconnected notification signal to an upper layer application in order to maintain data session at a host computer during a suspension period (col. 4 line 42 through col. 5 line 11). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of Shachar and Van Hoff in mediating the disconnection and reassignment of the communication line to the voice communication without issuing any disconnected notification to the upper layer application, as per teaching of Goldman, because it prevents loss of data when a communication line is temporarily switched for an optional use.

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Regarding claim 2, Shachar teaches the terminal obtaining a telephone number of the third party as information during the data communications (col. 10 lines 54-60).

Regarding claims 3-5, Shachar teaches the server comprising a telephone switch unit and the temporary line disconnecting unit provided in the terminal and the server for disconnecting between the terminal and the server when the terminal issues a request for voice communication with the third party (col. 11 line 7 through col. 12 line 49).

Regarding claims 6 and 8, Shachar discloses at least one unit provided on a server side for each user who receives a service of said server for managing personal information and communications status of each user (col. 9 lines 4-17 and col. 12 lines 23-49).

Regarding claims 9, 16 and 22, the limitations of the claims are rejected as the same reasons set forth in claim 1.

Regarding claim 10, 17 and 23, the limitations of the claims are rejected as the same reasons set forth in claim 2.

Regarding claims 11-13, 18-20 and 24-26, the limitations of the claims are rejected as the same reasons set forth in claims 3-5.

Regarding claim 14, 21 and 27-28, the limitations of the claims are rejected as the same reasons set forth in claims 6 and 8.

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4. Claims 29- are rejected under 35 U.S.C. 103(a) as being unpatentable over Shachar et al. (US PAT. 5,764,736 hereinafter Shachar) in view of Goldman et al. (US PAT. 4,995,074 hereinafter Goldman).

Regarding claim 29, Shachar discloses a communication system as shown in figure 1 comprising a server (124) providing information, a terminal (100) communicating data with the server, and a communication network (122) connecting said server to said terminal (col. 7 line 38 through col. 8 line 26), wherein the system further comprises a temporary line disconnection unit for temporarily disconnecting a line being used for primary data communication when a third party other than the server is being voice communicated during a data communication between the terminal and the server (figure 4b and col. 14 lines 2-20), wherein a data communicating process is performed from a status at a point immediately before starting the voice communication when said server and said terminal resume the data communication (figure 4c, col. 12 lines 34-57 and col. 14 lines 41-51). Shachar differs from the claimed invention in not specifically teaching the temporary line disconnected unit mediates the disconnection and reassignment of the communication line to the voice communication without issuing any disconnected notification to the upper layer application. However, Goldman teaches a system for preventing loss of a data when a communication line is temporarily switched for an optional use by not passing disconnected notification signal to an upper layer application in order to maintain data session at a host computer during a suspension period (col. 4 line 42 through col. 5 line 11). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the combination of Shachar in mediating the

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disconnection and reassignment of the communication line to the voice communication without issuing any disconnected notification to the upper layer application, as per teaching of Goldman, because it prevents loss of data when a communication line is temporarily switched for an optional use.

Regarding claim 30, Shachar teaches the terminal obtaining a telephone number of the third party as information during the data communications (col. 10 lines 54-60).

Regarding claims 31-33, Shachar teaches the server comprising a telephone switch unit and the temporary line disconnecting unit provided in the terminal and the server for disconnecting between the terminal and the server when the terminal issues a request for voice communication with the third party (col. 11 line 7 through col. 12 line 49).

Regarding claims 34 and 36, Shachar discloses at least one unit provided on a server side for each user who receives a service of said server for managing personal information and communications status of each user (col. 9 lines 4-17 and col. 12 lines 23-49).

Regarding claim 35, Shachar teaches a data fetch unit for automatically fetching data from the server to the terminal (figure 4a and col. 13 lines 7-40), a storage unit for storing data fetch by said automatic data fetch unit (col. 13 lines 62-66), wherein the communication system is able to download information from the server during data communication in the storage unit and to access the storage unit in order to accomplish various tasks (col. 8 lines 51-67, col. 10 lines 33-49 and col. 11 lines 35-41) so that the communication is capable of providing virtual data communication during voice communication.

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Regarding claims 37, 44 and 50, the limitations of the claims are rejected as the same reasons set forth in claim 29.

Regarding claims 38, 45 and 51, the limitations of the claims are rejected as the same reasons set forth in claim 30.

Regarding claims 39-40, 46-47 and 52-54, the limitations of the claims are rejected as the same reasons set forth in claims 31-33.

Regarding claim 41-42, 48 and 55, the limitations of the claims are rejected as the same reasons set forth in claims 34 and 36.

Regarding claims 43, 49 and 56, the limitations of the claims are rejected as the same reasons set forth in claim 35.

Response to Arguments

5. Applicant's arguments with respect to claims 1-6, 8-14 and 16-56 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Eng whose telephone number is (703) 308-9555. The examiner can normally be reached on Tuesday to Friday from 7 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (703) 305-4708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



GEORGE ENG

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